

Compactness Analysis Report

6/15/2011

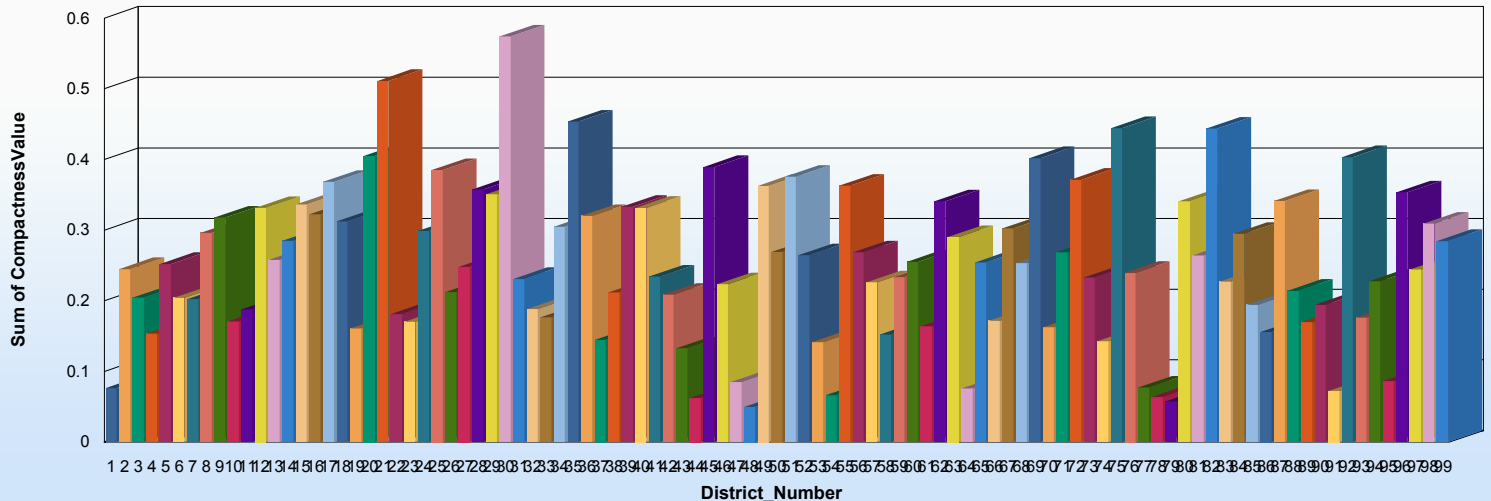
Plan Name: Workspace: Assembly>>TeamMap_6_10_11

Plan Last Edited on: 6/15/2011 10:52:14 AM

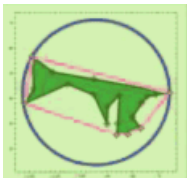
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Compactness Measure:

Circularity Ratio - Ratio of the area of the District to the area of a circle (the most compact shape) having the same perimeter. That ratio is expressed as $M = 4\pi(\text{area}) / (\text{perimeter})^2$. For a circle, the ratio is one. This



District:	1	Compactness Value:	0.08	As Percent:	7.7%
District:	2	Compactness Value:	0.24	As Percent:	24.5%
District:	3	Compactness Value:	0.20	As Percent:	20.5%
District:	4	Compactness Value:	0.15	As Percent:	15.4%
District:	5	Compactness Value:	0.25	As Percent:	25.2%
District:	6	Compactness Value:	0.20	As Percent:	20.4%
District:	7	Compactness Value:	0.20	As Percent:	20.2%
District:	8	Compactness Value:	0.30	As Percent:	29.6%
District:	9	Compactness Value:	0.32	As Percent:	31.8%
District:	10	Compactness Value:	0.17	As Percent:	17.1%
District:	11	Compactness Value:	0.19	As Percent:	18.8%
District:	12	Compactness Value:	0.33	As Percent:	33.1%
District:	13	Compactness Value:	0.26	As Percent:	25.8%
District:	14	Compactness Value:	0.28	As Percent:	28.5%
District:	15	Compactness Value:	0.34	As Percent:	33.6%
District:	16	Compactness Value:	0.32	As Percent:	32.2%
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District:	19	Compactness Value:	0.16	As Percent:	16.1%
District:	20	Compactness Value:	0.41	As Percent:	40.5%
District:	21	Compactness Value:	0.51	As Percent:	51.1%
District:	22	Compactness Value:	0.18	As Percent:	18.1%
District:	23	Compactness Value:	0.17	As Percent:	17.0%
District:	24	Compactness Value:	0.30	As Percent:	29.9%
District:	25	Compactness Value:	0.38	As Percent:	38.5%
District:	26	Compactness Value:	0.21	As Percent:	21.2%



Compactness Analysis Report

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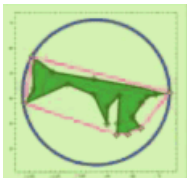
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2

District:	27	Compactness Value:	0.25	As Percent:	24.8%
District:	28	Compactness Value:	0.36	As Percent:	35.8%
District:	29	Compactness Value:	0.35	As Percent:	35.1%
District:	30	Compactness Value:	0.57	As Percent:	57.4%
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District:	32	Compactness Value:	0.19	As Percent:	18.8%
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District:	34	Compactness Value:	0.30	As Percent:	30.5%
District:	35	Compactness Value:	0.45	As Percent:	45.4%
District:	36	Compactness Value:	0.32	As Percent:	32.0%
District:	37	Compactness Value:	0.14	As Percent:	14.5%
District:	38	Compactness Value:	0.21	As Percent:	21.2%
District:	39	Compactness Value:	0.33	As Percent:	33.3%
District:	40	Compactness Value:	0.33	As Percent:	33.1%
District:	41	Compactness Value:	0.23	As Percent:	23.4%
District:	42	Compactness Value:	0.21	As Percent:	20.8%
District:	43	Compactness Value:	0.13	As Percent:	13.3%
District:	44	Compactness Value:	0.06	As Percent:	6.2%
District:	45	Compactness Value:	0.39	As Percent:	38.9%
District:	46	Compactness Value:	0.22	As Percent:	22.3%
District:	47	Compactness Value:	0.08	As Percent:	8.5%
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District:	49	Compactness Value:	0.36	As Percent:	36.3%
District:	50	Compactness Value:	0.27	As Percent:	26.9%
District:	51	Compactness Value:	0.38	As Percent:	37.5%
District:	52	Compactness Value:	0.26	As Percent:	26.4%
District:	53	Compactness Value:	0.14	As Percent:	14.2%
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District:	56	Compactness Value:	0.27	As Percent:	26.9%
District:	57	Compactness Value:	0.23	As Percent:	22.6%
District:	58	Compactness Value:	0.15	As Percent:	15.2%
District:	59	Compactness Value:	0.23	As Percent:	23.4%
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District:	61	Compactness Value:	0.16	As Percent:	16.4%
District:	62	Compactness Value:	0.34	As Percent:	34.1%
District:	63	Compactness Value:	0.29	As Percent:	29.0%
District:	64	Compactness Value:	0.08	As Percent:	7.6%
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District:	70	Compactness Value:	0.16	As Percent:	16.3%
District:	71	Compactness Value:	0.27	As Percent:	26.9%



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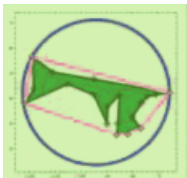
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2

District: 72	Compactness Value: 0.37	As Percent: 37.1%
District: 73	Compactness Value: 0.23	As Percent: 23.3%
District: 74	Compactness Value: 0.14	As Percent: 14.3%
District: 75	Compactness Value: 0.44	As Percent: 44.4%
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District: 77	Compactness Value: 0.08	As Percent: 7.7%
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District: 79	Compactness Value: 0.06	As Percent: 5.8%
District: 80	Compactness Value: 0.34	As Percent: 34.1%
District: 81	Compactness Value: 0.26	As Percent: 26.4%
District: 82	Compactness Value: 0.44	As Percent: 44.4%
District: 83	Compactness Value: 0.23	As Percent: 22.7%
District: 84	Compactness Value: 0.29	As Percent: 29.5%
District: 85	Compactness Value: 0.19	As Percent: 19.4%
District: 86	Compactness Value: 0.16	As Percent: 15.6%
District: 87	Compactness Value: 0.34	As Percent: 34.1%
District: 88	Compactness Value: 0.21	As Percent: 21.4%
District: 89	Compactness Value: 0.17	As Percent: 17.0%
District: 90	Compactness Value: 0.19	As Percent: 19.4%
District: 91	Compactness Value: 0.07	As Percent: 7.2%
District: 92	Compactness Value: 0.40	As Percent: 40.3%
District: 93	Compactness Value: 0.18	As Percent: 17.6%
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District: 97	Compactness Value: 0.24	As Percent: 24.4%
District: 98	Compactness Value: 0.31	As Percent: 30.9%
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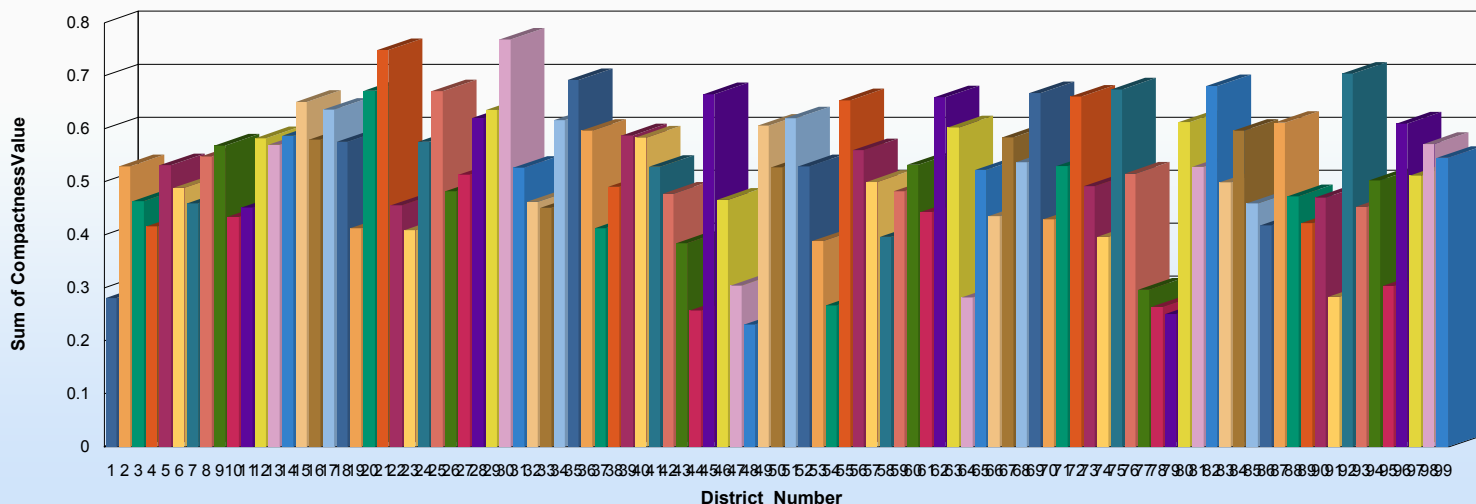
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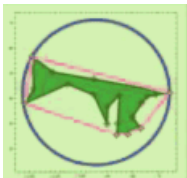
2

Compactness Measure:

Circumference of an equal area circle divided by the perimeter of the district



District:	1	Compactness Value:	0.28	As Percent:	28.1%
District:	2	Compactness Value:	0.53	As Percent:	52.9%
District:	3	Compactness Value:	0.46	As Percent:	46.4%
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District:	7	Compactness Value:	0.46	As Percent:	45.9%
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District:	11	Compactness Value:	0.45	As Percent:	45.2%
District:	12	Compactness Value:	0.58	As Percent:	58.2%
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District:	14	Compactness Value:	0.59	As Percent:	58.7%
District:	15	Compactness Value:	0.65	As Percent:	65.1%
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District:	17	Compactness Value:	0.64	As Percent:	63.6%
District:	18	Compactness Value:	0.58	As Percent:	57.5%
District:	19	Compactness Value:	0.41	As Percent:	41.2%
District:	20	Compactness Value:	0.67	As Percent:	67.2%
District:	21	Compactness Value:	0.75	As Percent:	74.9%
District:	22	Compactness Value:	0.46	As Percent:	45.5%
District:	23	Compactness Value:	0.41	As Percent:	40.9%
District:	24	Compactness Value:	0.58	As Percent:	57.6%
District:	25	Compactness Value:	0.67	As Percent:	67.1%
District:	26	Compactness Value:	0.48	As Percent:	48.2%
District:	27	Compactness Value:	0.51	As Percent:	51.4%



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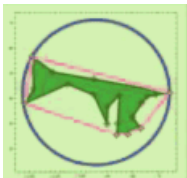
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2

District:	28	Compactness Value:	0.62	As Percent:	62.1%
District:	29	Compactness Value:	0.64	As Percent:	63.6%
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District:	39	Compactness Value:	0.59	As Percent:	58.8%
District:	40	Compactness Value:	0.58	As Percent:	58.4%
District:	41	Compactness Value:	0.53	As Percent:	52.9%
District:	42	Compactness Value:	0.48	As Percent:	47.8%
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District:	48	Compactness Value:	0.23	As Percent:	23.0%
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District:	51	Compactness Value:	0.62	As Percent:	62.0%
District:	52	Compactness Value:	0.53	As Percent:	52.9%
District:	53	Compactness Value:	0.39	As Percent:	38.8%
District:	54	Compactness Value:	0.27	As Percent:	26.7%
District:	55	Compactness Value:	0.65	As Percent:	65.4%
District:	56	Compactness Value:	0.56	As Percent:	56.0%
District:	57	Compactness Value:	0.50	As Percent:	50.0%
District:	58	Compactness Value:	0.40	As Percent:	39.6%
District:	59	Compactness Value:	0.48	As Percent:	48.2%
District:	60	Compactness Value:	0.53	As Percent:	53.2%
District:	61	Compactness Value:	0.44	As Percent:	44.3%
District:	62	Compactness Value:	0.66	As Percent:	66.0%
District:	63	Compactness Value:	0.60	As Percent:	60.3%
District:	64	Compactness Value:	0.28	As Percent:	28.2%
District:	65	Compactness Value:	0.52	As Percent:	52.2%
District:	66	Compactness Value:	0.44	As Percent:	43.6%
District:	67	Compactness Value:	0.58	As Percent:	58.4%
District:	68	Compactness Value:	0.54	As Percent:	53.7%
District:	69	Compactness Value:	0.67	As Percent:	66.7%
District:	70	Compactness Value:	0.43	As Percent:	42.9%
District:	71	Compactness Value:	0.53	As Percent:	52.9%
District:	72	Compactness Value:	0.66	As Percent:	66.1%



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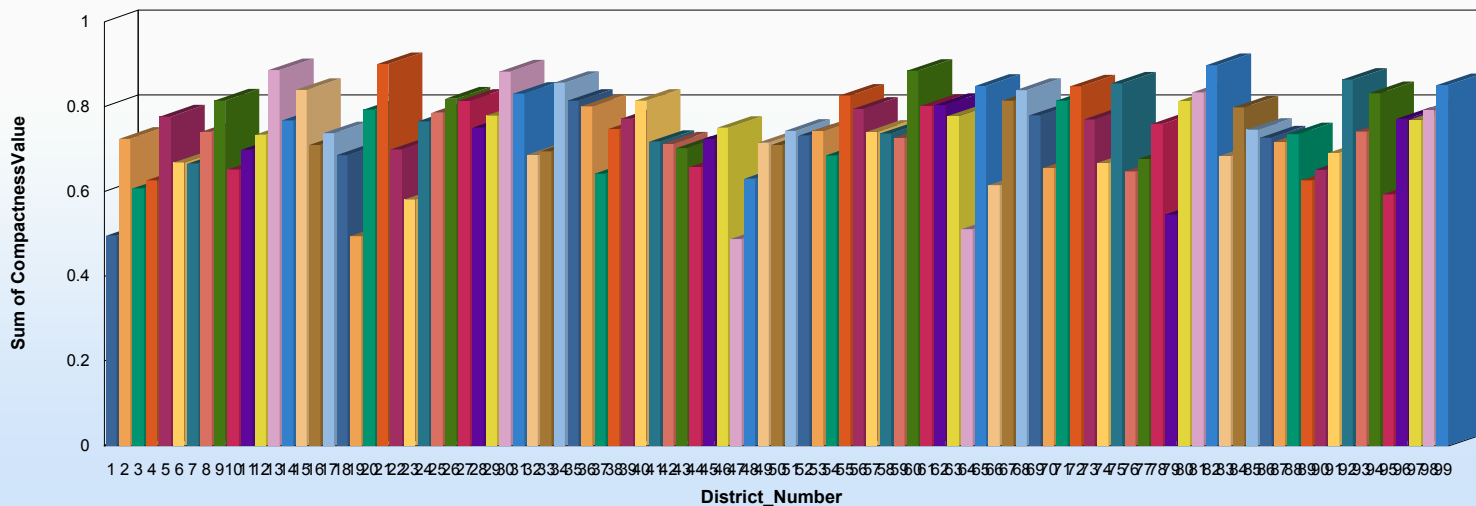
Confidential

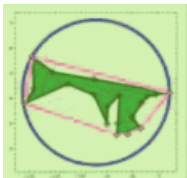
2

District:	73	Compactness Value:	0.49	As Percent:	49.2%
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District:	77	Compactness Value:	0.30	As Percent:	29.7%
District:	78	Compactness Value:	0.26	As Percent:	26.4%
District:	79	Compactness Value:	0.25	As Percent:	25.1%
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District:	81	Compactness Value:	0.53	As Percent:	52.8%
District:	82	Compactness Value:	0.68	As Percent:	68.1%
District:	83	Compactness Value:	0.50	As Percent:	49.9%
District:	84	Compactness Value:	0.60	As Percent:	59.6%
District:	85	Compactness Value:	0.46	As Percent:	45.9%
District:	86	Compactness Value:	0.42	As Percent:	41.8%
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District:	92	Compactness Value:	0.70	As Percent:	70.4%
District:	93	Compactness Value:	0.45	As Percent:	45.3%
District:	94	Compactness Value:	0.50	As Percent:	50.3%
District:	95	Compactness Value:	0.30	As Percent:	30.4%
District:	96	Compactness Value:	0.61	As Percent:	61.0%
District:	97	Compactness Value:	0.51	As Percent:	51.2%
District:	98	Compactness Value:	0.57	As Percent:	57.1%
District:	99	Compactness Value:	0.55	As Percent:	54.5%

Compactness Measure:

District area divided by the area of the district's Convex Hull. This method is also known as the Schwartzberg test.





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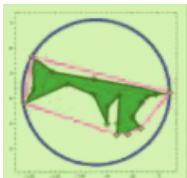
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2

District:	1	Compactness Value:	0.50	As Percent:	49.5%
District:	2	Compactness Value:	0.72	As Percent:	72.4%
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District:	6	Compactness Value:	0.67	As Percent:	66.8%
District:	7	Compactness Value:	0.67	As Percent:	66.5%
District:	8	Compactness Value:	0.74	As Percent:	74.0%
District:	9	Compactness Value:	0.81	As Percent:	81.4%
District:	10	Compactness Value:	0.65	As Percent:	65.2%
District:	11	Compactness Value:	0.70	As Percent:	69.8%
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District:	17	Compactness Value:	0.74	As Percent:	73.7%
District:	18	Compactness Value:	0.69	As Percent:	68.6%
District:	19	Compactness Value:	0.49	As Percent:	49.5%
District:	20	Compactness Value:	0.79	As Percent:	79.3%
District:	21	Compactness Value:	0.90	As Percent:	90.0%
District:	22	Compactness Value:	0.70	As Percent:	69.9%
District:	23	Compactness Value:	0.58	As Percent:	58.1%
District:	24	Compactness Value:	0.77	As Percent:	76.5%
District:	25	Compactness Value:	0.79	As Percent:	78.6%
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District:	29	Compactness Value:	0.78	As Percent:	77.9%
District:	30	Compactness Value:	0.88	As Percent:	88.3%
District:	31	Compactness Value:	0.83	As Percent:	83.1%
District:	32	Compactness Value:	0.69	As Percent:	68.7%
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District:	37	Compactness Value:	0.64	As Percent:	64.2%
District:	38	Compactness Value:	0.75	As Percent:	74.7%
District:	39	Compactness Value:	0.77	As Percent:	77.2%
District:	40	Compactness Value:	0.81	As Percent:	81.4%
District:	41	Compactness Value:	0.72	As Percent:	71.7%
District:	42	Compactness Value:	0.71	As Percent:	71.3%
District:	43	Compactness Value:	0.70	As Percent:	70.2%
District:	44	Compactness Value:	0.66	As Percent:	65.8%
District:	45	Compactness Value:	0.72	As Percent:	72.4%



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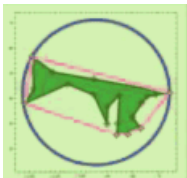
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District:	46	Compactness Value:	0.75	As Percent:	75.0%
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District:	49	Compactness Value:	0.71	As Percent:	71.5%
District:	50	Compactness Value:	0.71	As Percent:	71.0%
District:	51	Compactness Value:	0.74	As Percent:	74.3%
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District:	54	Compactness Value:	0.68	As Percent:	68.5%
District:	55	Compactness Value:	0.83	As Percent:	82.6%
District:	56	Compactness Value:	0.79	As Percent:	79.5%
District:	57	Compactness Value:	0.74	As Percent:	74.1%
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District:	60	Compactness Value:	0.88	As Percent:	88.5%
District:	61	Compactness Value:	0.80	As Percent:	80.2%
District:	62	Compactness Value:	0.80	As Percent:	80.4%
District:	63	Compactness Value:	0.78	As Percent:	77.8%
District:	64	Compactness Value:	0.51	As Percent:	51.1%
District:	65	Compactness Value:	0.85	As Percent:	84.9%
District:	66	Compactness Value:	0.61	As Percent:	61.5%
District:	67	Compactness Value:	0.81	As Percent:	81.4%
District:	68	Compactness Value:	0.84	As Percent:	83.9%
District:	69	Compactness Value:	0.78	As Percent:	77.9%
District:	70	Compactness Value:	0.66	As Percent:	65.5%
District:	71	Compactness Value:	0.81	As Percent:	81.4%
District:	72	Compactness Value:	0.85	As Percent:	84.8%
District:	73	Compactness Value:	0.77	As Percent:	77.0%
District:	74	Compactness Value:	0.67	As Percent:	66.7%
District:	75	Compactness Value:	0.85	As Percent:	85.5%
District:	76	Compactness Value:	0.65	As Percent:	64.7%
District:	77	Compactness Value:	0.68	As Percent:	67.6%
District:	78	Compactness Value:	0.76	As Percent:	75.9%
District:	79	Compactness Value:	0.55	As Percent:	54.5%
District:	80	Compactness Value:	0.81	As Percent:	81.3%
District:	81	Compactness Value:	0.83	As Percent:	83.4%
District:	82	Compactness Value:	0.90	As Percent:	89.8%
District:	83	Compactness Value:	0.68	As Percent:	68.4%
District:	84	Compactness Value:	0.80	As Percent:	79.8%
District:	85	Compactness Value:	0.75	As Percent:	74.6%
District:	86	Compactness Value:	0.73	As Percent:	72.7%
District:	87	Compactness Value:	0.72	As Percent:	71.7%
District:	88	Compactness Value:	0.74	As Percent:	73.5%
District:	89	Compactness Value:	0.63	As Percent:	62.6%
District:	90	Compactness Value:	0.65	As Percent:	65.1%



Compactness Analysis Report

6/15/2011

Plan Name: Workspace: Assembly>>TeamMap_6_10_11

Plan Last Edited on: 6/15/2011 10:52:14 AM

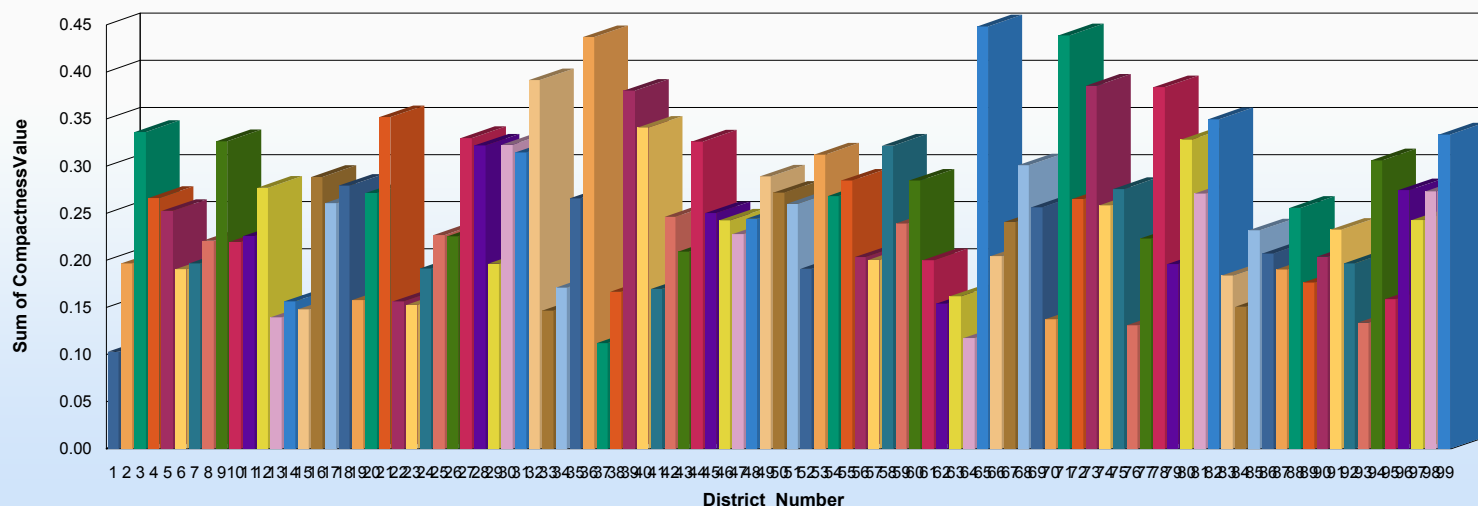
Confidential

2

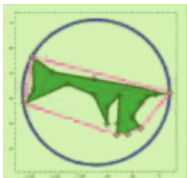
District:	91	Compactness Value:	0.69	As Percent:	69.1%
District:	92	Compactness Value:	0.86	As Percent:	86.4%
District:	93	Compactness Value:	0.74	As Percent:	74.1%
District:	94	Compactness Value:	0.83	As Percent:	83.2%
District:	95	Compactness Value:	0.59	As Percent:	59.3%
District:	96	Compactness Value:	0.77	As Percent:	77.1%
District:	97	Compactness Value:	0.77	As Percent:	76.9%
District:	98	Compactness Value:	0.79	As Percent:	79.3%
District:	99	Compactness Value:	0.85	As Percent:	85.1%

Compactness Measure:

District area divided by the area of the minimum circle bounding the district. This method is also known as the Roeck or Ehrenberg test.



District:	1	Compactness Value:	0.10	As Percent:	10.3%
District:	2	Compactness Value:	0.20	As Percent:	19.7%
District:	3	Compactness Value:	0.34	As Percent:	33.6%
District:	4	Compactness Value:	0.27	As Percent:	26.6%
District:	5	Compactness Value:	0.25	As Percent:	25.3%
District:	6	Compactness Value:	0.19	As Percent:	19.1%
District:	7	Compactness Value:	0.20	As Percent:	19.7%
District:	8	Compactness Value:	0.22	As Percent:	22.1%
District:	9	Compactness Value:	0.33	As Percent:	32.7%
District:	10	Compactness Value:	0.22	As Percent:	22.0%
District:	11	Compactness Value:	0.23	As Percent:	22.6%
District:	12	Compactness Value:	0.28	As Percent:	27.7%
District:	13	Compactness Value:	0.14	As Percent:	13.9%
District:	14	Compactness Value:	0.16	As Percent:	15.7%
District:	15	Compactness Value:	0.15	As Percent:	14.8%
District:	16	Compactness Value:	0.29	As Percent:	28.9%
District:	17	Compactness Value:	0.26	As Percent:	26.1%
District:	18	Compactness Value:	0.28	As Percent:	27.9%



Compactness Analysis Report

Plan Name: Workspace: Assembly>>TeamMap_6_10_11

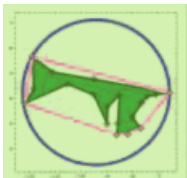
Plan Last Edited on: 6/15/2011 10:52:14 AM

6/15/2011

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District:	19	Compactness Value:	0.16	As Percent:	15.8%
District:	20	Compactness Value:	0.27	As Percent:	27.1%
District:	21	Compactness Value:	0.35	As Percent:	35.2%
District:	22	Compactness Value:	0.16	As Percent:	15.6%
District:	23	Compactness Value:	0.15	As Percent:	15.3%
District:	24	Compactness Value:	0.19	As Percent:	19.1%
District:	25	Compactness Value:	0.23	As Percent:	22.7%
District:	26	Compactness Value:	0.23	As Percent:	22.6%
District:	27	Compactness Value:	0.33	As Percent:	33.0%
District:	28	Compactness Value:	0.32	As Percent:	32.2%
District:	29	Compactness Value:	0.20	As Percent:	19.7%
District:	30	Compactness Value:	0.32	As Percent:	32.3%
District:	31	Compactness Value:	0.31	As Percent:	31.4%
District:	32	Compactness Value:	0.39	As Percent:	39.1%
District:	33	Compactness Value:	0.15	As Percent:	14.7%
District:	34	Compactness Value:	0.17	As Percent:	17.1%
District:	35	Compactness Value:	0.27	As Percent:	26.6%
District:	36	Compactness Value:	0.44	As Percent:	43.7%
District:	37	Compactness Value:	0.11	As Percent:	11.2%
District:	38	Compactness Value:	0.17	As Percent:	16.7%
District:	39	Compactness Value:	0.38	As Percent:	38.0%
District:	40	Compactness Value:	0.34	As Percent:	34.1%
District:	41	Compactness Value:	0.17	As Percent:	17.0%
District:	42	Compactness Value:	0.25	As Percent:	24.6%
District:	43	Compactness Value:	0.21	As Percent:	20.9%
District:	44	Compactness Value:	0.33	As Percent:	32.6%
District:	45	Compactness Value:	0.25	As Percent:	25.0%
District:	46	Compactness Value:	0.24	As Percent:	24.2%
District:	47	Compactness Value:	0.23	As Percent:	22.8%
District:	48	Compactness Value:	0.24	As Percent:	24.4%
District:	49	Compactness Value:	0.29	As Percent:	28.9%
District:	50	Compactness Value:	0.27	As Percent:	27.2%
District:	51	Compactness Value:	0.26	As Percent:	26.0%
District:	52	Compactness Value:	0.19	As Percent:	19.1%
District:	53	Compactness Value:	0.31	As Percent:	31.2%
District:	54	Compactness Value:	0.27	As Percent:	26.8%
District:	55	Compactness Value:	0.28	As Percent:	28.5%
District:	56	Compactness Value:	0.20	As Percent:	20.3%
District:	57	Compactness Value:	0.20	As Percent:	20.1%
District:	58	Compactness Value:	0.32	As Percent:	32.2%
District:	59	Compactness Value:	0.24	As Percent:	23.9%
District:	60	Compactness Value:	0.28	As Percent:	28.5%
District:	61	Compactness Value:	0.20	As Percent:	20.0%
District:	62	Compactness Value:	0.15	As Percent:	15.4%
District:	63	Compactness Value:	0.16	As Percent:	16.2%



Compactness Analysis Report

Plan Name: Workspace: Assembly>>TeamMap_6_10_11

Plan Last Edited on: 6/15/2011 10:52:14 AM

6/15/2011

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District:	64	Compactness Value:	0.12	As Percent:	11.7%
District:	65	Compactness Value:	0.45	As Percent:	44.8%
District:	66	Compactness Value:	0.20	As Percent:	20.4%
District:	67	Compactness Value:	0.24	As Percent:	24.1%
District:	68	Compactness Value:	0.30	As Percent:	30.1%
District:	69	Compactness Value:	0.26	As Percent:	25.6%
District:	70	Compactness Value:	0.14	As Percent:	13.7%
District:	71	Compactness Value:	0.44	As Percent:	43.9%
District:	72	Compactness Value:	0.27	As Percent:	26.5%
District:	73	Compactness Value:	0.39	As Percent:	38.5%
District:	74	Compactness Value:	0.26	As Percent:	25.8%
District:	75	Compactness Value:	0.28	As Percent:	27.6%
District:	76	Compactness Value:	0.13	As Percent:	13.1%
District:	77	Compactness Value:	0.22	As Percent:	22.3%
District:	78	Compactness Value:	0.38	As Percent:	38.4%
District:	79	Compactness Value:	0.20	As Percent:	19.6%
District:	80	Compactness Value:	0.33	As Percent:	32.8%
District:	81	Compactness Value:	0.27	As Percent:	27.1%
District:	82	Compactness Value:	0.35	As Percent:	35.0%
District:	83	Compactness Value:	0.18	As Percent:	18.4%
District:	84	Compactness Value:	0.15	As Percent:	15.1%
District:	85	Compactness Value:	0.23	As Percent:	23.2%
District:	86	Compactness Value:	0.21	As Percent:	20.7%
District:	87	Compactness Value:	0.19	As Percent:	19.0%
District:	88	Compactness Value:	0.26	As Percent:	25.6%
District:	89	Compactness Value:	0.18	As Percent:	17.7%
District:	90	Compactness Value:	0.20	As Percent:	20.4%
District:	91	Compactness Value:	0.23	As Percent:	23.3%
District:	92	Compactness Value:	0.20	As Percent:	19.7%
District:	93	Compactness Value:	0.13	As Percent:	13.4%
District:	94	Compactness Value:	0.31	As Percent:	30.6%
District:	95	Compactness Value:	0.16	As Percent:	15.9%
District:	96	Compactness Value:	0.27	As Percent:	27.4%
District:	97	Compactness Value:	0.24	As Percent:	24.3%
District:	98	Compactness Value:	0.27	As Percent:	27.3%
District:	99	Compactness Value:	0.33	As Percent:	33.4%

Total Perimeter for all Districts 50,906.26 Miles